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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/015,404	12/12/2001	Takashi Ito	S004-4479	4066
7590	05/07/2003			
ADAMS & WILKS 31st Floor 50 Broadway New York, NY 10004			EXAMINER	
			EDWARDS, ANTHONY Q	
		ART UNIT	PAPER NUMBER	
		2835		
		DATE MAILED: 05/07/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)
	10/015,404	ITO ET AL.
	Examiner Anthony Q. Edwards	Art Unit 2835

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on _____.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-8 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) 1-8 is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) The proposed drawing correction filed on _____ is: a) approved b) disapproved by the Examiner.
 If approved, corrected drawings are required in reply to this Office action.
- 12) The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
 - a) The translation of the foreign language provisional application has been received.
- 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s). _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Objections

Claim 2 recites the limitation "the plurality of the wear bodies" in line 2, as well as "the plurality the antennas" in lines 5 and 6. There is insufficient antecedent basis for this limitation in the claim. Appropriate correction is required.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1 and 3 are rejected under 35 U.S.C. 102(b) as being anticipated by U.S. Patent No. 5,260,915 to Houihan. Referring to claim 1, FIGS. 3 and 4 of Houlihan show an arm wear type communication device (10), comprising a communication device body (20b) for transmitting and receiving a signal. Furthermore, column 3, lines 21-24 of U.S. Patent No 4,847,818 to Olsen, which is incorporated by reference, discloses a wear body (20c) which is pivotally fixed (at 30b) to the communication device body in order to be worn to an arm. Houlihan also discloses a sound unit (52) provided in the wear body, and an antenna, located between the sound unit and the communication device body and which is provided in the wear body. See col. 3, lines 30-33 of Olsen for the disclosure of the claimed antenna.

Referring to claim 3, Houihan discloses an arm wear type communication device, wherein the wear body has a curved part having a curvature which is smaller than a curvature of

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a part of the physical body when a part of the wear body is held to the part of the physical body, and the antenna is provided in the curved part. See FIG. 2 and the corresponding specification.

Claim 8 is rejected under 35 U.S.C. 102(b) as being anticipated by U.S. Patent No. 5,569,879 to Gloton. Gloton discloses a high dielectric chip antenna comprising, a conductor foil which is provided on the surface of a chip-shaped material which is obtained by mixing a resin with a high dielectric material, and a pattern which is formed on the surface on the conductor foil. See column 2, lines 44-59.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 2 and 4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Houlihan in view of U.S. Patent No. 5,943,020 to Liebendoerfer et al. Referring to claim 2, Houlihan discloses all of the claimed elements of the arm wear type communication device, except for the communication device body adapted to compare the reception states of signals that are respectively obtained from a plurality of the antennas provided in the wear bodies, respectively. Liebendoerfer et al. disclose an antenna for use in a dielectric block of a radiotelephone. See column 6, lines 47-49. As best understood by the Examiner, comparing reception states, as claimed, is equivalent to receiving two adjacent frequencies (i.e., dual frequency mode), which is also disclosed by Liebendoerfer et al. See column 6, lines 51-53. It would have been obvious to

one of ordinary skill in the art at the time the invention was made to modify the arm wear type communication device having a plurality of pivotally fixed arm wear bodies (20a and 20c), and a plurality of antennas disposed therein, of Houlihan, to include a communication device body adapted to compare the reception states of signals, as taught by Liebendoerfer et al, to provide dual frequency mode reception.

Referring to claim 4, as indicated above, Houlihan discloses an arm wear type communication device, wherein the wear body has a curved part having a curvature which is smaller than a curvature of a part of the physical body when a part of the wear body is held to the part of the physical body, and the antenna is provided in the curved part. See FIG. 2 and the corresponding specification.

Claims 5-7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Houlihan in view of Gloton et al. Houlihan discloses all of the claimed elements of the arm wear type communication device, except for the antenna formed in such a way that a pattern made of a conductor foil is formed on the surface of a material which is obtained by mixing a resin with a high dielectric material so as to become a chip shape. Gloton discloses the claimed antenna. See column 2, lines 44-59 and the Abstract. It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the arm wear type communication device of Houlihan to include an antenna formed in a pattern made of a conductor foil on a surface of a material that is obtained by mixing a resin with a high dielectric material into a chip shape, as taught by Gloton et al., to provide a flat antenna for use in portable telephones.

Conclusion

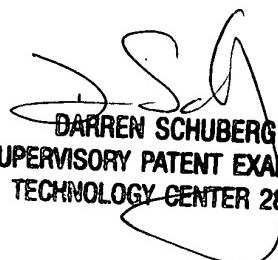
The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. U.S. Patent Nos. 5,228,012 and 5,218,577 to Seager disclose wristwatch telephones having chip antennas disposed in pivotally affixed bands of the wristwatch. U.S. Patent No. 6,529,713 to Seymour discloses a wearable handset capable of communication.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anthony Q. Edwards whose telephone number is 703-605-4214. The examiner can normally be reached on M-F (7:30-3:00) First Friday Off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Darren Schuberg can be reached on (703) 308-4815. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 308-7722 for regular communications and (703) 306-5511 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 306-9929.

aqe
April 30, 2003


DARREN SCHUBERG
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2800